

□ Selective removal of gas mixt components passing
membrane - by **flushing** liq. having preferential
reaction with target component.

L20 ANSWER 111 OF 121 WPINDEX COPYRIGHT 2002 DERWENT INFORMATION LTD
AN 1989-371381 [51] WPINDEX
DNN N1989-282679 DNC C1989-164468
DC J01 S03 X25
IN BECKER, E; FRAHNE, D
PA (BECK-N) BECKER & CO GMBH
CYC 1
PI DE 3818919 A 19891214 (198951)* 12p
ADT DE 3818919 A DE 1988-3818919 19880603
PRAI DE 1988-3818919 19880603
AN 1989-371381 [51] WPINDEX
AB DE 3818919 A UPAB: 19930923

In removing one component from a **gas mixt.**, esp.
water vapour, the **mixt.** is applied at pressure of 1.1 to
1 million Pa to a membrane permeable to polar molecules. The membrane
surface away from the gas appln. side is flushed with liq. having
preferred affinity for the selected component (water). The flushing liqs.
whose action may be chemical or physical, include those forming solvates,
e.g. hydrates, alcoholate or aminates.

The process may be divided into thermally distinguished phases,
starting with hot operation at 30-90 deg.C, then progressively cooling
down to -30 deg.C. The membrane may be formed of helical hollow fibres
forming feed conduits for the initial gas mixt., with several membranes
combined in a hollow fibre bundle.

USE - Used for selective drying of IC engine exhaust gases to aid
research,, or for general atmos. investigations by IR spectroscopy or gas
chromatography.

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